

# ProjectTS Workshop - June 4 2015

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## Installation

### DWR Intranet

<\\mrsbmapp20932\db\ProjectTS>

Run setup.exe.

### RTDF Website

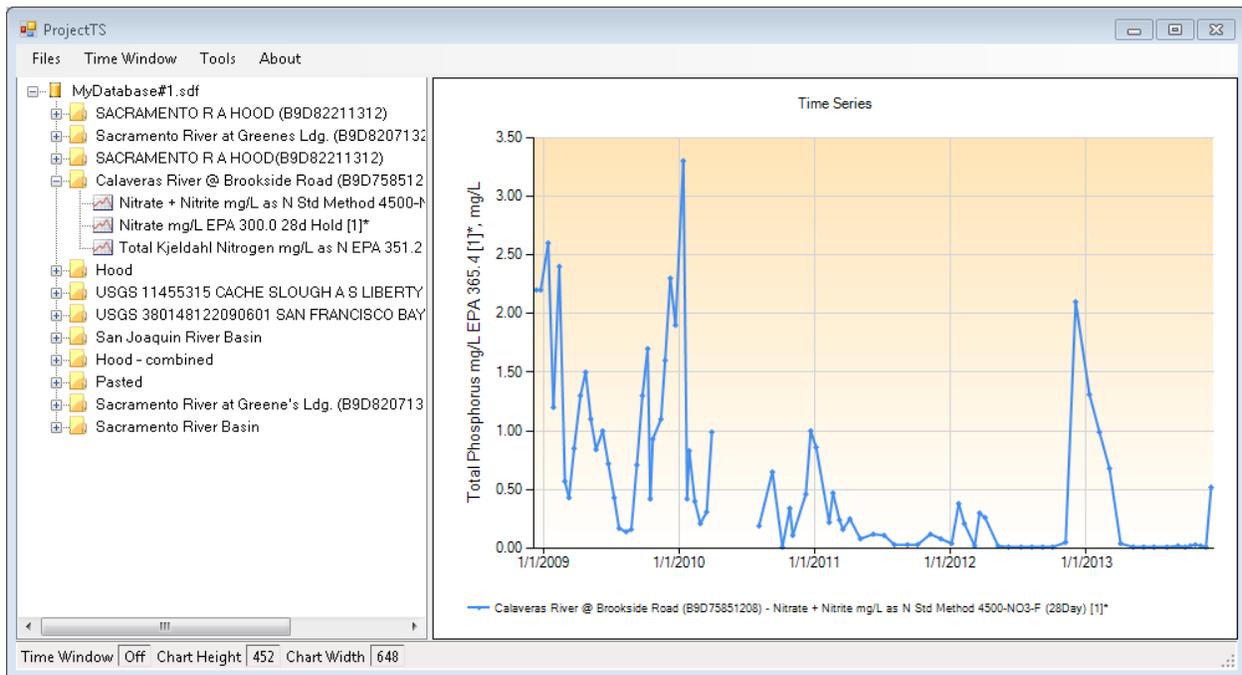
[http://www.water.ca.gov/waterquality/drinkingwater/public\\_docs/Applications/ProjectTS](http://www.water.ca.gov/waterquality/drinkingwater/public_docs/Applications/ProjectTS)

Run ProjectTS.msi to install.

## Documentation and Data Files

1. Copy the folder "Workshop Files" from your installation source to your computer. The location on your computer does not matter.
2. Open the user guide *Project Time Series Data Management and Analysis.pdf* in your browser or copy it to your computer. It's in the same folder as the installation files.

## Overview



## Step-by-Step Walkthrough

1. Start ProjectTS
2. Open and Explore an Existing ProjectTS data file.
  - a. Select *Files/Open Database* on the main menu.
  - b. Open Training#1.sdf. ProjectTS data files have an .sdf extension.
  - c. Expand the explorer tree view to see individual series.
  - d. Right click on a series in the San Joaquin R group then select *Edit Metadata*. Close the metadata form using the close form icon in the upper right corner.
  - e. Double click on a series to plot it.
  - f. Add a chart area to the workspace, and plot a second series.
    - i. Right click on the graphical workspace and select *Add Chart Area*.
    - ii. Double click on the second series. It will be plotted in the new chart area.
  - g. Add a third series to the workspace. Right click on it and select *User Right Axis*
3. Use the tools to process, modify or analyze series.
  - a. Select *Clear chart* by right-clicking on an empty area in the graphic workspace
  - b. Plot the two San Joaquin R. Kjeldahl Nitrogen series.

- c. Right click on each series (or its legend) and select *Series Statistics*
  - d. Add a chart area to the workspace.
  - e. Select *Tools/Combine*
  - f. Select *Tools/Trendline*.
  - g. Select *Tools/Compute Aggregates/WY Averages*
  - h. Change the resulting series style to “Stepped Line”. Right click on the series or legend and select *Display Options/Style/Stepped Line*.
  - i. Save the last series. Right click on the series or its legend and select *Save Series*. Note that the series is added to the tree view explorer.
  - j. Clear the chart area and open the file *Regressions.sdf*.
  - k. Add Vernalis Chloride to the workspace.
  - l. Select *Tools/Trendline*
  - m. Add Vernalis EC to the workspace.
  - n. Select *Tools/Correlate Series*.
4. Create a new ProjectTS data file and import data
- a. Clear the chart areas and Select *Files/Create Database*.
  - b. Navigate to a folder of your choice and specify a file name
  - c. Import data from a WDL crosstab spreadsheet
    - i. Select *Files/WDL (Excel Only)* on the main menu.
    - ii. Open *WDL\_Xtab\_KA-17226\_Ammonia.xlsx*.
    - iii. Save selected data.
      1. Right click on the group name in the explorer and select *Save*.
      2. Check the series to save on the form that is displayed, then select the *Save* button on the form.
  - d. Import and save data from the USGS text file *USGS\_Cache\_Slough\_ExampleData.txt*.
  - e. Paste columns from a spreadsheet
    - i. Clear the graphic workspace
    - ii. Open *Import and Export.xlsx*, select and copy the range *Data\_To\_Paste!A4:D18*.
    - iii. Right click on the graphic workspace and select *Paste Data*.

- iv. You can edit the metadata for each of the pasted series, then save it using the series pop-up menu.
- f. Export data to a spreadsheet
  - i. Clear the graphic workspace
  - ii. Open the file *Training#1.sdf* and plot the two Kjeldahl Nitrogen series.
  - iii. Right click on the graphic workspace and select *Copy data to clipboard*.
  - iv. Paste the data on the clipboard into an Excel spreadsheet or into Notepad.